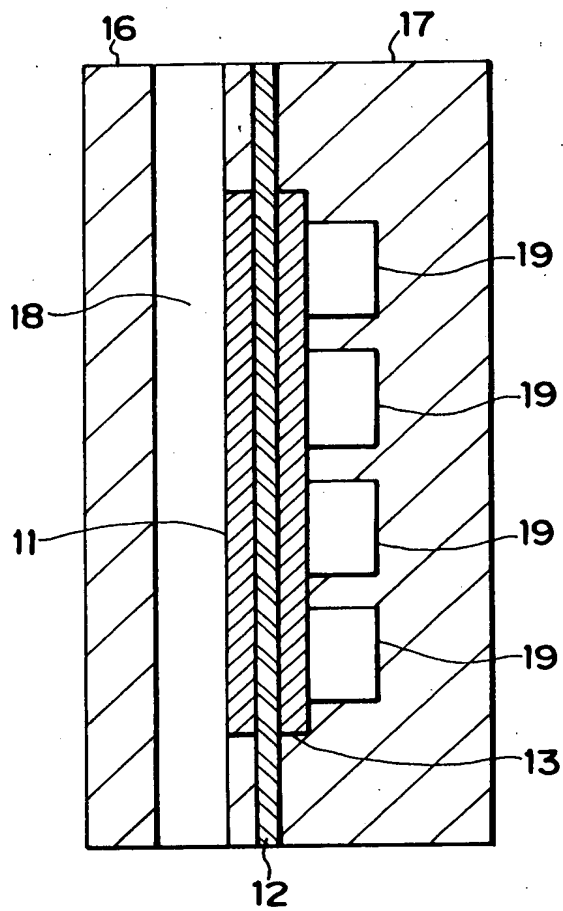
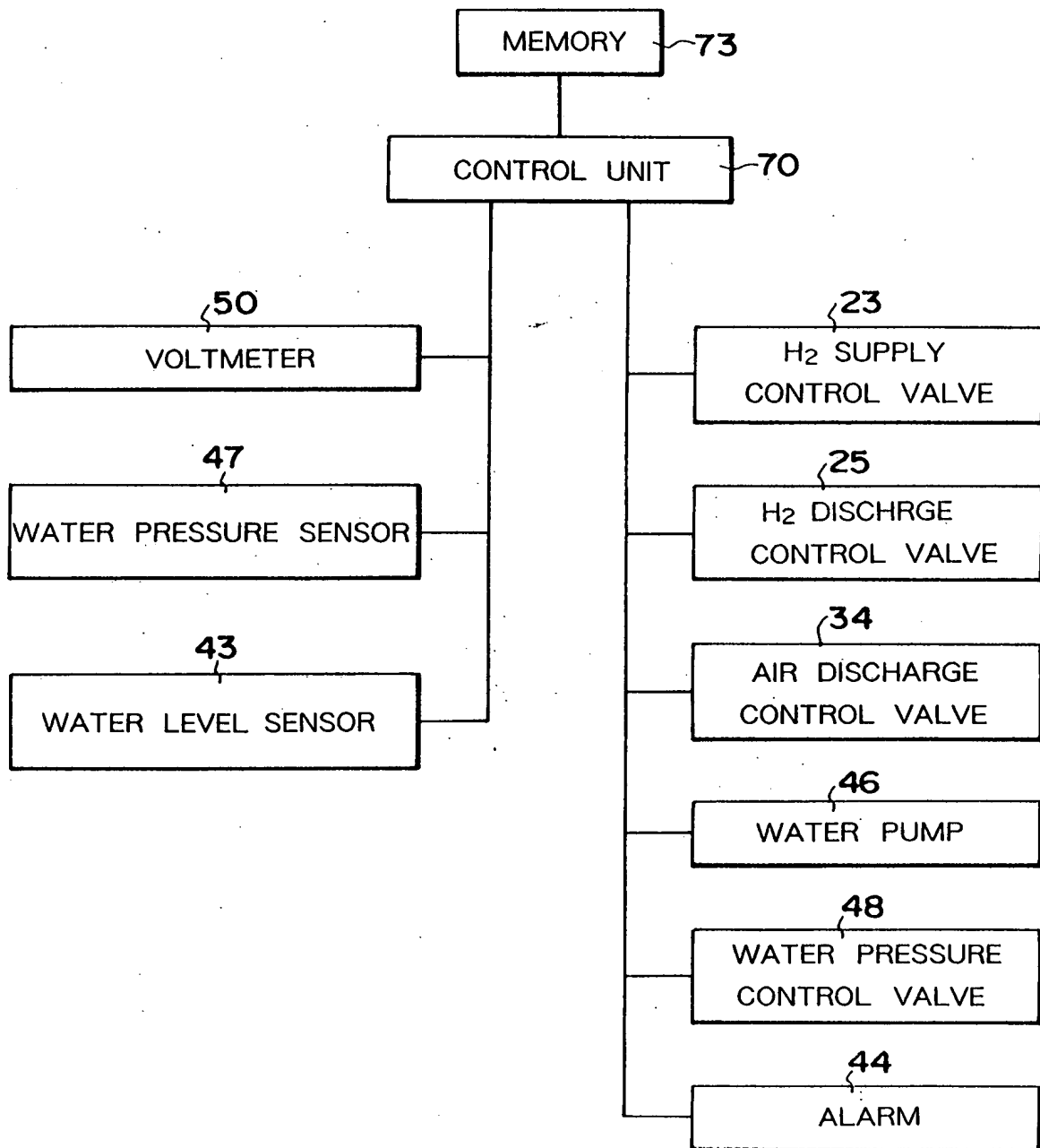




FIG.2

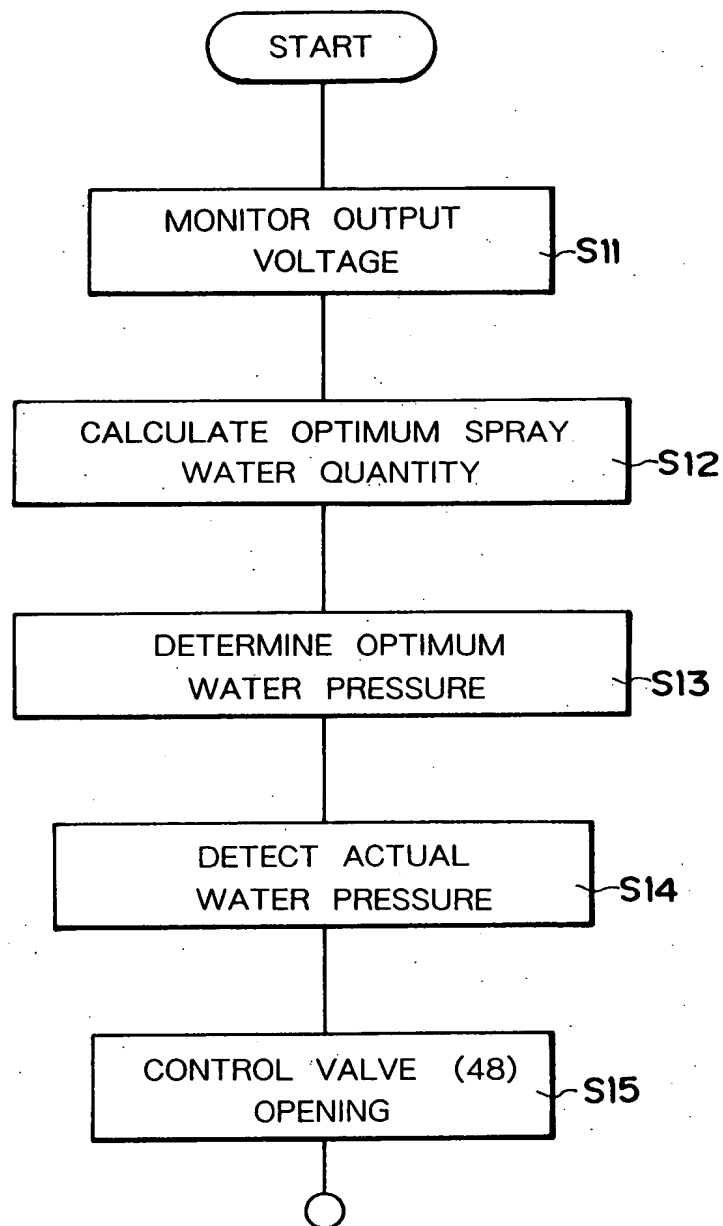


**FIG.3**



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FIG.4



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FIG.5

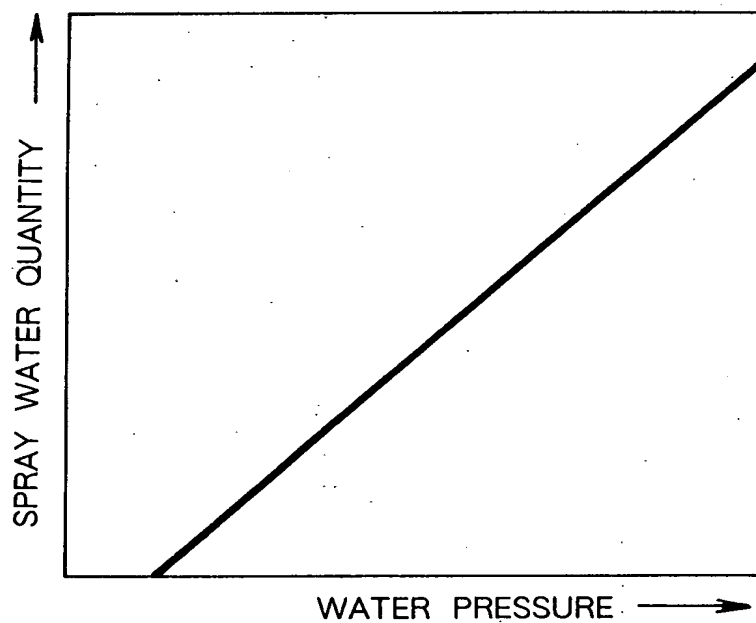
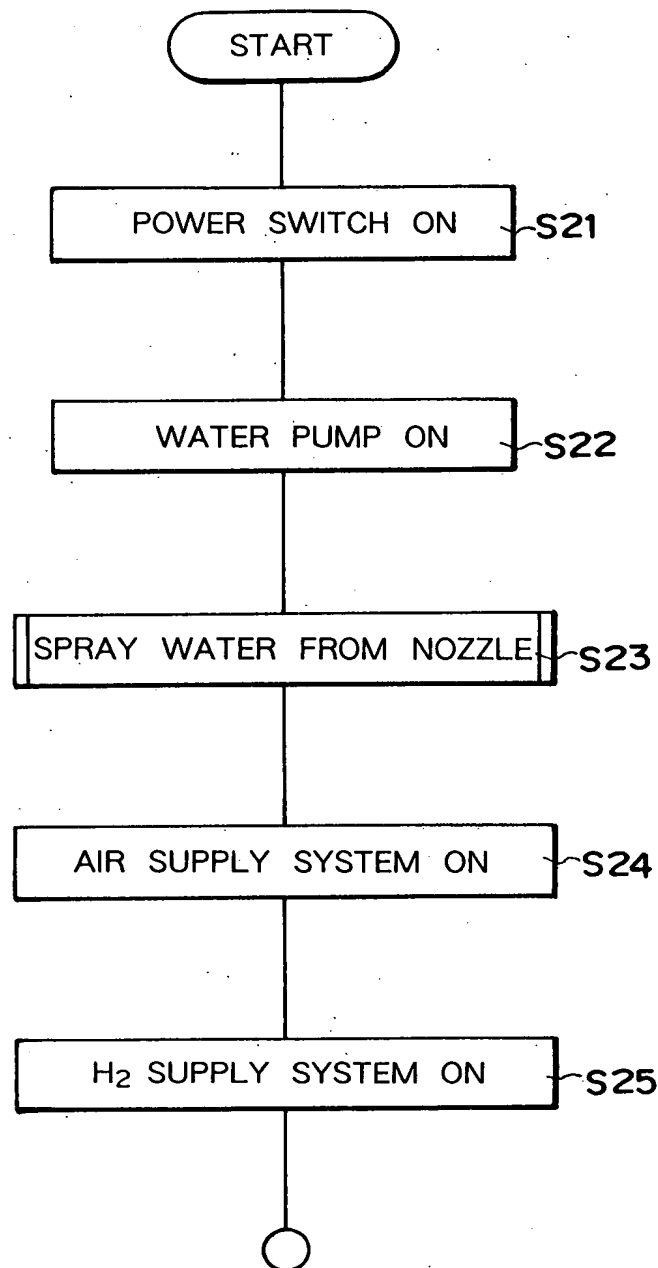


FIG.6



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FIG.8

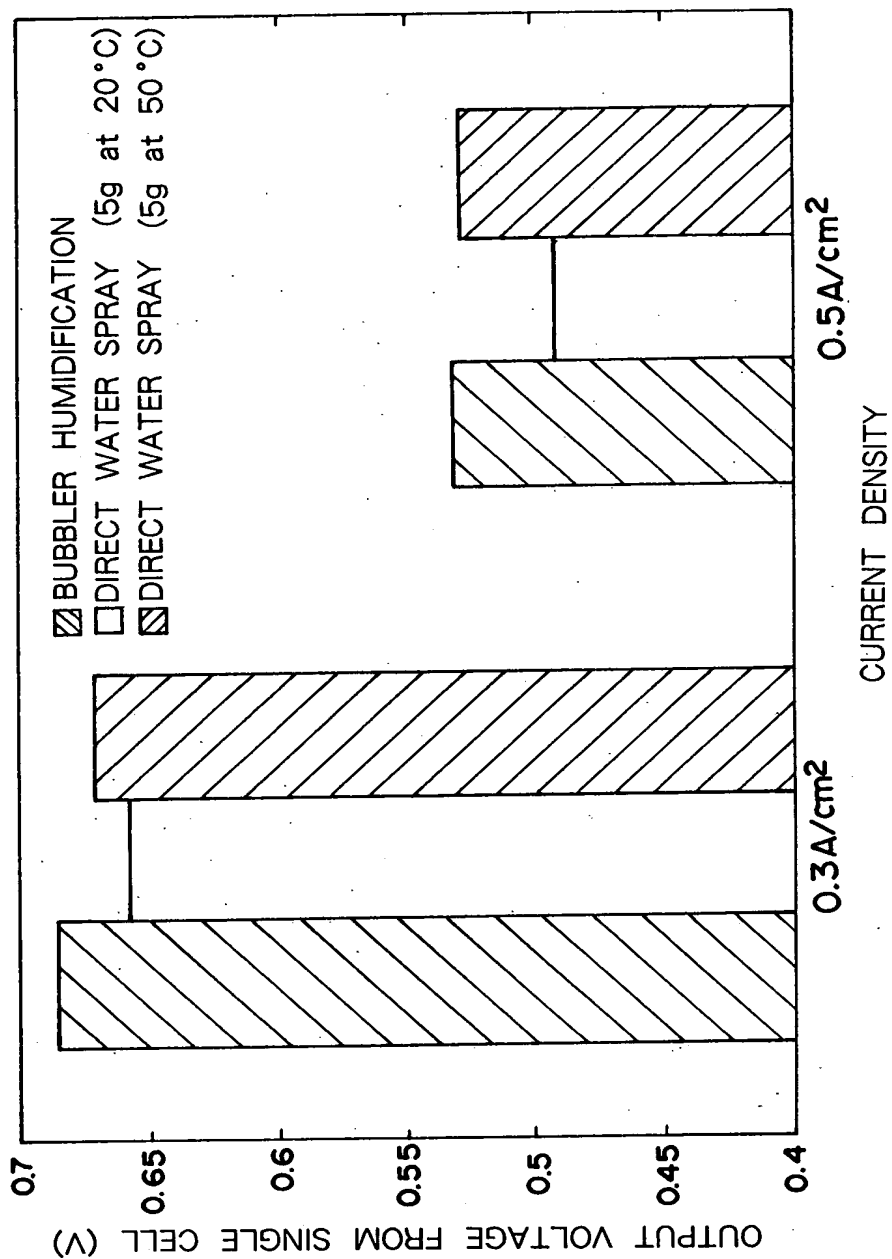




FIG. 9

PRIOR ART

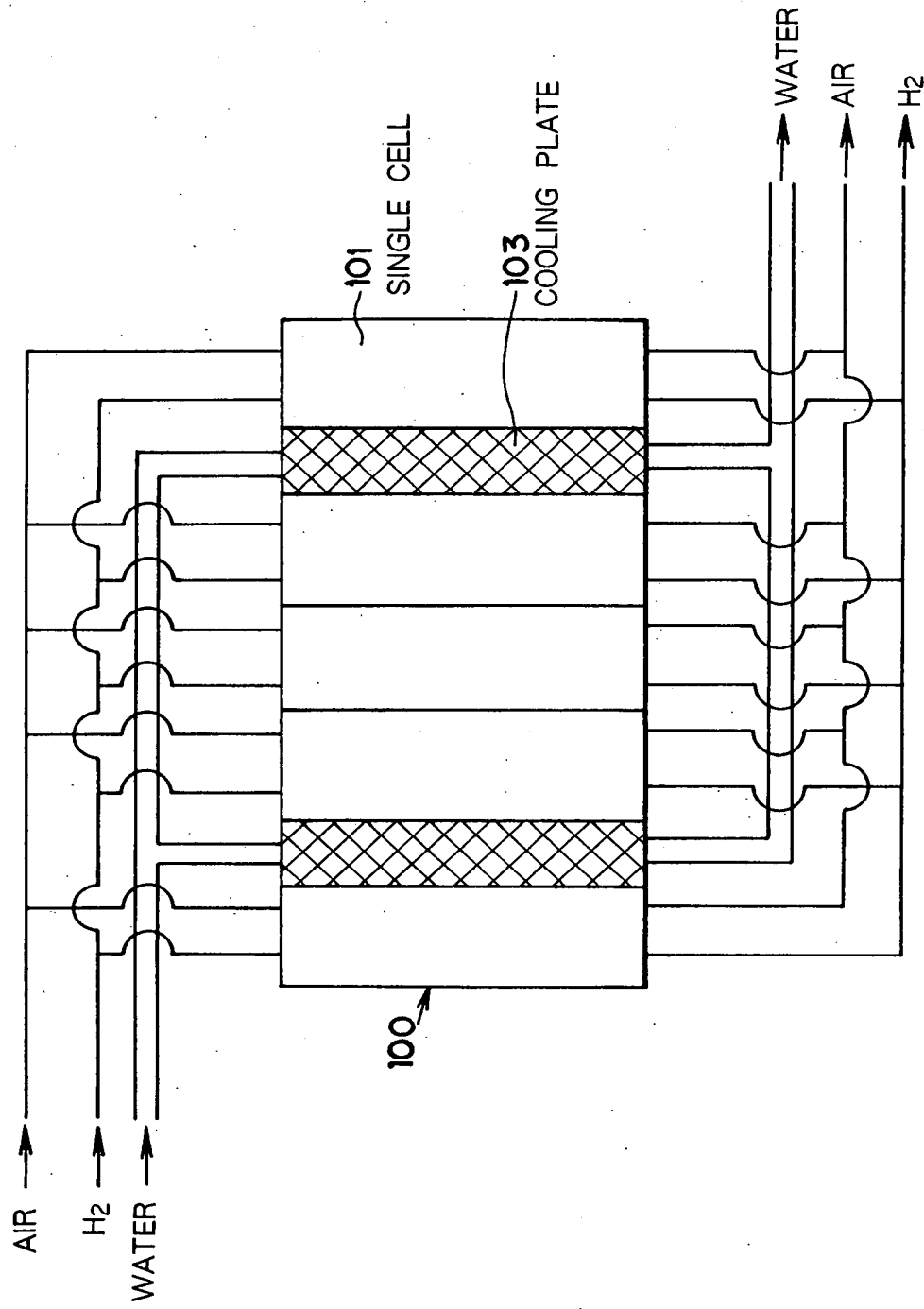


FIG.10

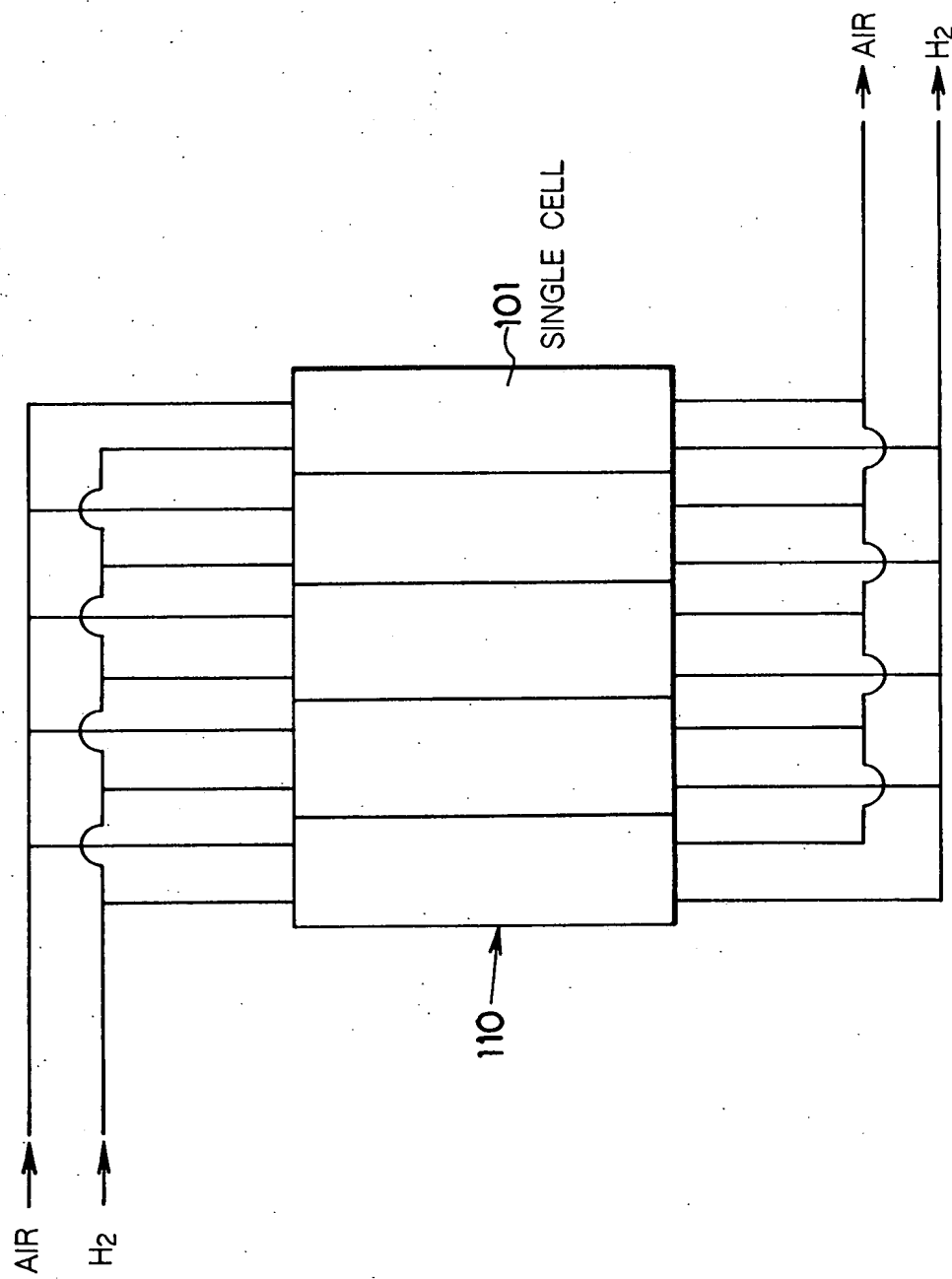


FIG.11

|            | TEST SAMPLE                          | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|------------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| CONDITIONS | SPRAY WATER QTY.<br>(g/min. cell)    | 0    | 31   | 40   | 44   | 0    | 31   | 40   | 44   | 0    | 31   | 40   | 44   |
|            | SPRAY WATER TEMP.<br>(°C)            | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |
|            | AIR FLOW RATE (l/min)                | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   |
|            | AIR TEMP. (°C)                       | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   |
|            | WATER TEMP. (°C)<br>IN COOLING PLATE | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
|            |                                      |      |      |      |      |      |      |      |      |      |      |      |      |
| RESULTS    | F/C WALL TEMP. (°C)                  | 35.1 | 31.3 | 31.8 | 31.3 | 48.5 | 41   | 41   | 40.5 | 61.4 | 50.4 | 49   | 47.8 |
|            | F/C DISCHARG GAS<br>TEMP. (°C)       | 38.5 | 33.4 | 33.4 | 33.3 | 57.3 | 46.8 | 46.3 | 46.5 | 75.7 | 56.3 | 55.2 | 53.6 |
|            | WATER TEMP. (°C)<br>AT F/C INLET     | 39.6 | 39.5 | 39.6 | 39.6 | 59.3 | 58.8 | 59   | 58.9 | 78.4 | 76.9 | 75   | 73.5 |
|            | WATER TEMP. (°C)<br>AT F/C OUTLET    | 38.9 | 34.4 | 34.1 | 33.8 | 57.9 | 47.8 | 47.2 | 46.9 | 76.7 | 61   | 58.7 | 57.6 |

FIG.12

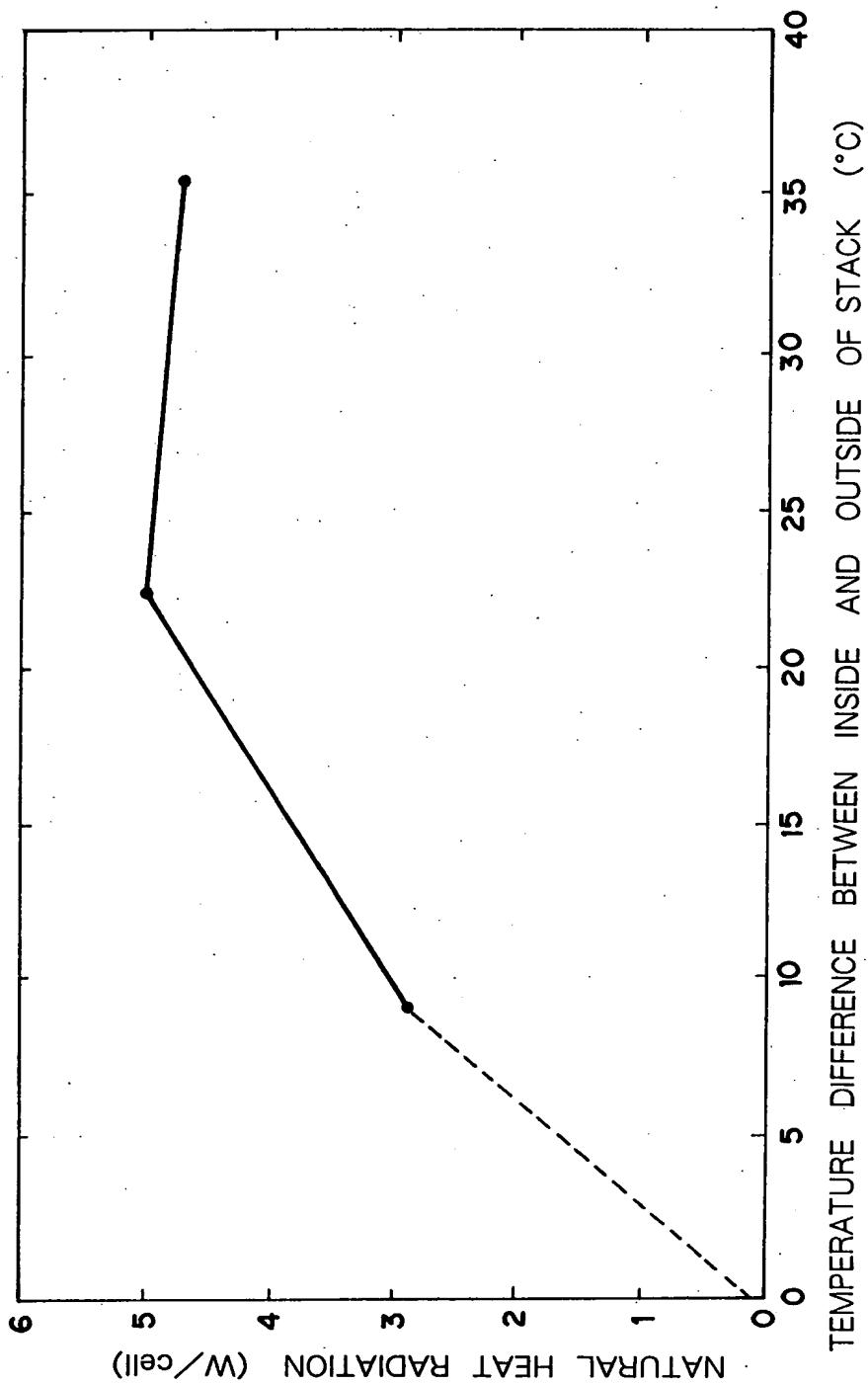


FIG.13

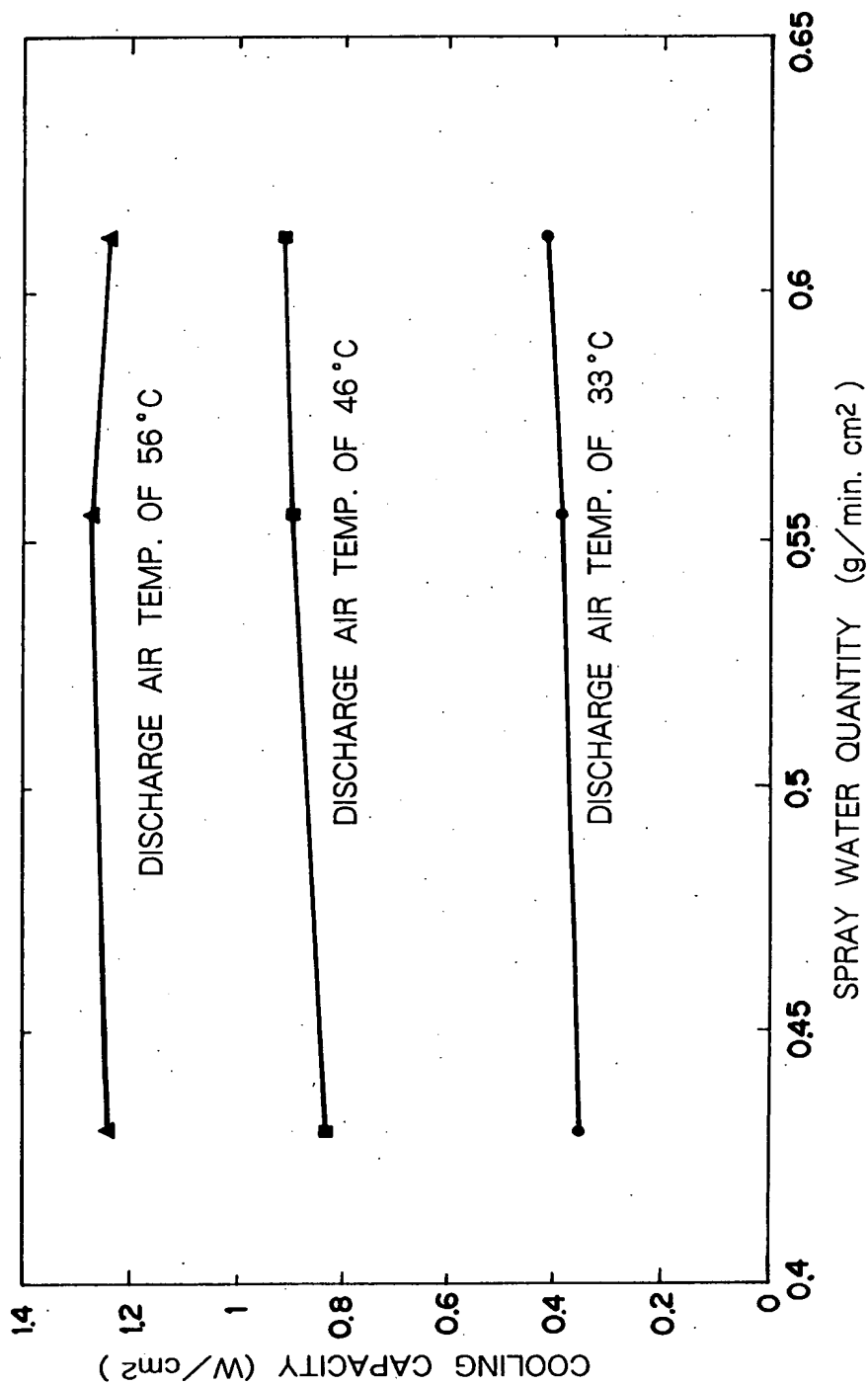


FIG.14

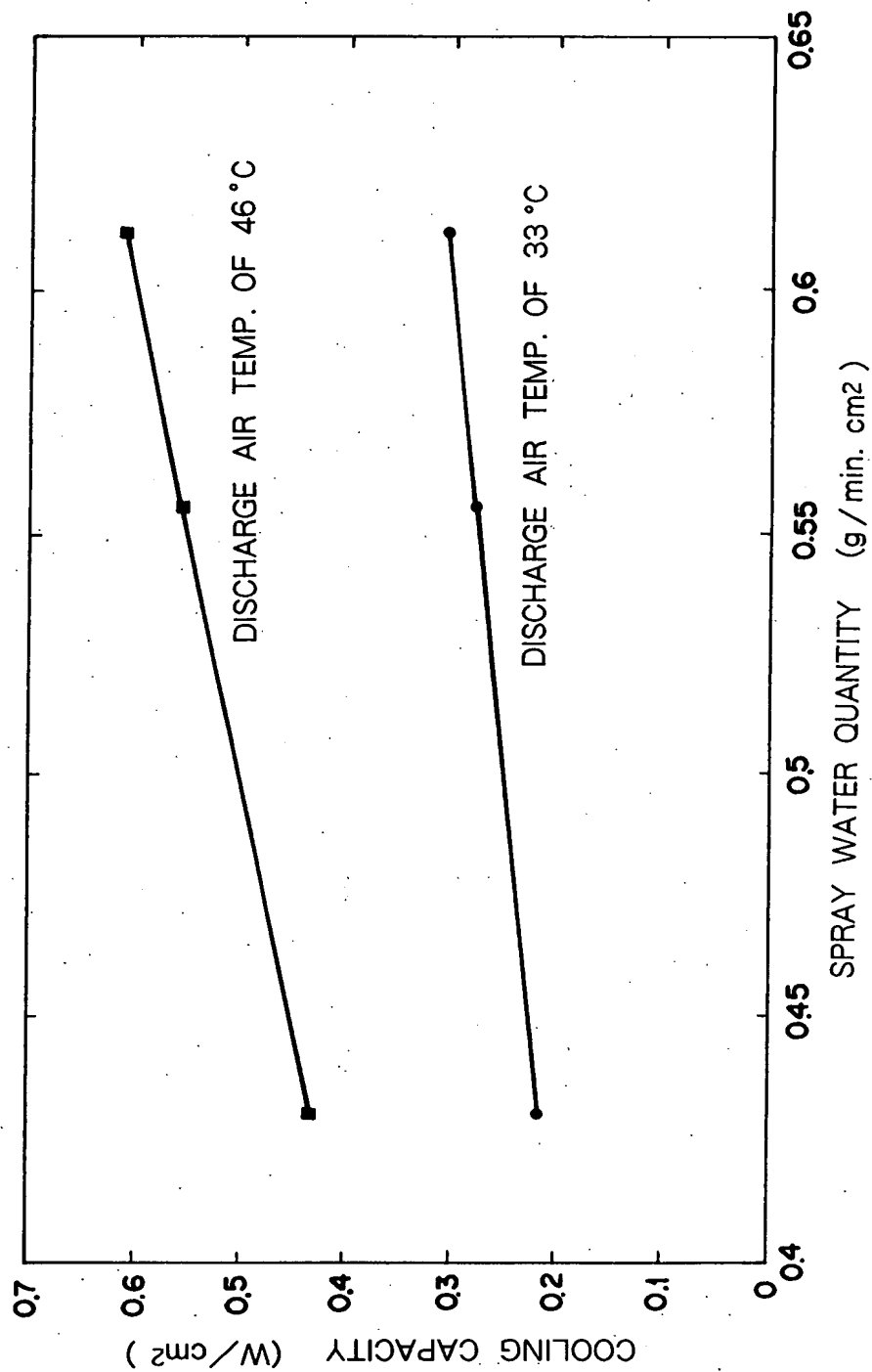


FIG.15

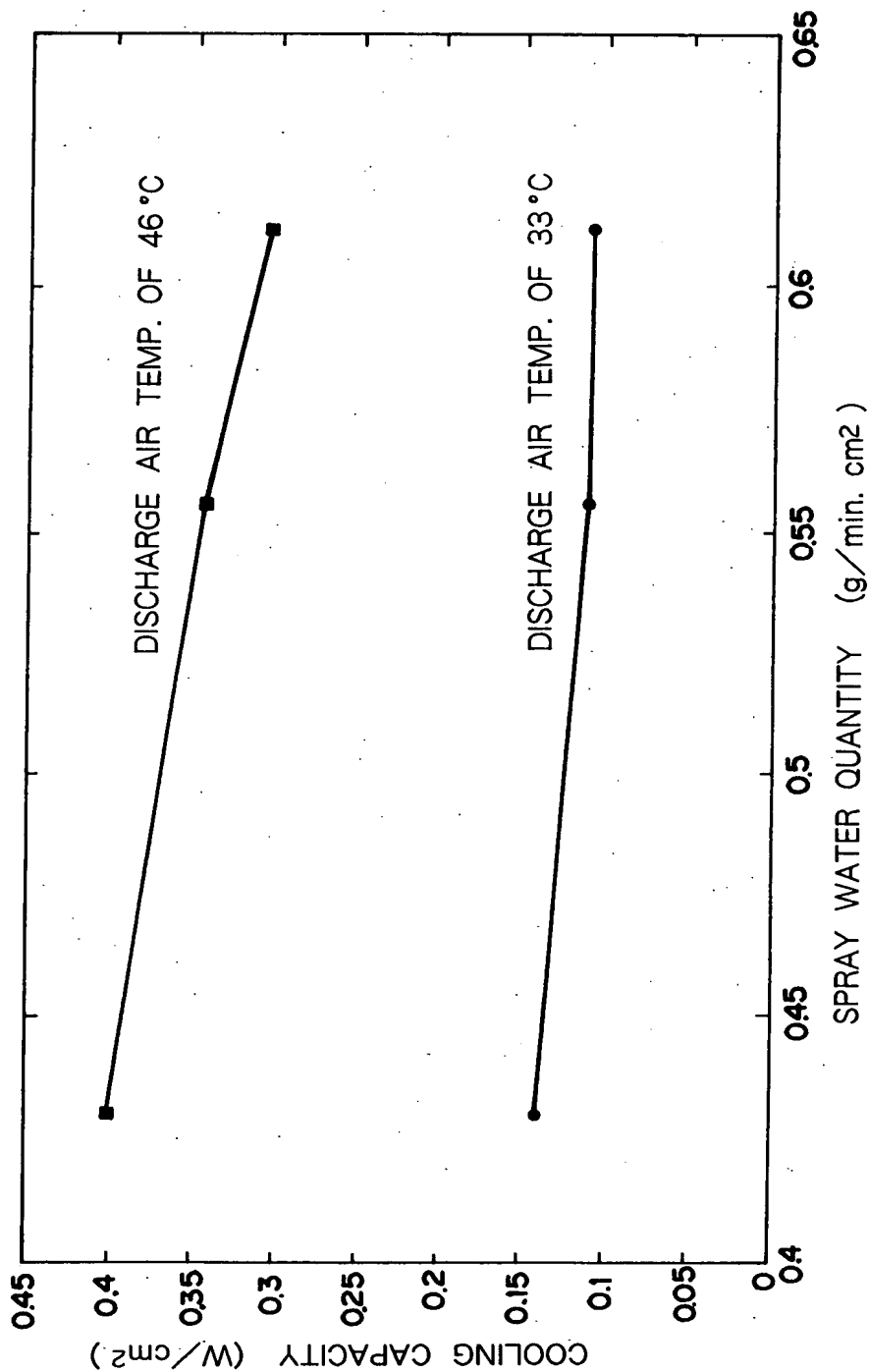


FIG.16

